## WHAT IS CLAIMED IS:

- An isolated polynucleotide comprising a polynucleotide having at least 95% sequence identity to a polynucleotide selected from the group consisting of: SEQ ID NO:5 and SEQ ID NO:10.
- A recombinant expression cassette comprising a polynucleotide having at least 95% sequence identity to a polynucleotide selected from the group consisting of: SEQ ID NO:5 and SEO ID NO:10.
- A vector comprising a recombinant expression cassette comprising a polynucleotide having at least 95% sequence identity to a polynucleotide selected from the group consisting of: SEQ ID NO:5 and SEQ ID NO:10.
- 4. A host cell comprising a recombinant expression cassette comprising a polynucleotide having at least 95% sequence identity to a polynucleotide selected from the group consisting of: SEO ID NO:5 and SEO ID NO:10.
- 5. The host cell of claim 4 wherein the cell is a plant cell.
- The host cell of claim 5 wherein the cell is selected from the group consisting of: maize, sorghum, wheat, tomato, soybean, alfalfa, sunflower, canola, cotton, and rice.
- A transformed plant comprising a polynucleotide having at least 95% sequence identity to a polynucleotide selected from the group consisting of: SEQ ID NO:5 and SEQ ID NO:10.
- A plant seed comprising a polynucleotide having at least 95% sequence identity to a
  polynucleotide selected from the group consisting of: SEQ ID NO:5 and SEQ ID NO:10.
- A method of reducing pathogenicity of a fungus producing fumonisin or a structurally related mycotoxin, comprising:

- a) transforming a plant cell with a vector comprising a polynucleotide operably linked to a promoter wherein the polynucleotide has at least 95% sequence identity to a polynucleotide selected from the group consisting of: SEQ ID NO:5 and SEQ ID NO:10;
- b) growing the plant cell under plant growing conditions; and
- inducing expression of said polynucleotides for a time sufficient for amounts of the fumonisin esterase and APAO enzymes to accumulate to levels that can inhibit the fungus.
- 10. A method of making an APAO enzyme comprising the steps of:
  - a) expressing a polynucleotide operably linked to a promoter in a recombinantly engineered cell, wherein the polynucleotide has at least 95% sequence identity to a polynucleotide selected from the group consisting of: SEQ ID NO:5 and SEQ ID NO:10; and
  - b) purifying the enzyme.